

## CD93/C1qR1 Protein, Mouse (HEK293, His)

<b>Cat. No.:</b>	HY-P75373
<b>Synonyms:</b>	Complement Component C1q Receptor; CD93; C1qRp; Ly-68; C1qr1
<b>Species:</b>	Mouse
<b>Source:</b>	HEK293
<b>Accession:</b>	O89103 (A23-N572)
<b>Gene ID:</b>	17064
<b>Molecular Weight:</b>	Approximately 100 kDa

### PROPERTIES

<b>AA Sequence</b>	<pre> A D S Q A V V C E G   T A C Y T A H W G K   L S A A E A Q H R C   N E N G G N L A T V K S E E E A R H V Q   Q A L T Q L L K T K   A P L E A K M G K F   W I G L Q R E K G N C T Y H D L P M R G   F S W V G G G E D T   A Y S N W Y K A S K   S S C I F K R C V S L I L D L S L T P H   P S H L P K W H E S   P C G T P E A P G N   S I E G F L C K F N F K G M C R P L A L   G G P G R V T Y T T   P F Q A T T S S L E   A V P F A S V A N V A C G D E A K S E T   H Y F L C N E K T P   G I F H W G S S G P   L C V S P K F G C S F N N G G C Q Q D C   F E G G D G S F R C   G C R P G F R L L D   D L V T C A S R N P C S S N P C T G G G   M C H S V P L S E N   Y T C R C P S G Y Q   L D S S Q V H C V D I D E C Q D S P C A   Q D C V N T L G S F   H C E C W V G Y Q P   S G P K E E A C E D V D E C A A A N S P   C A Q G C I N T D G   S F Y C S C K E G Y   I V S G E D S T Q C E D I D E C S D A R   G N P C D S L C F N   T D G S F R C G C P   P G W E L A P N G V F C S R G T V F S E   L P A R P P Q K E D   N D D R K E S T M P   P T E M P S S P S G S K D V S N R A Q T   T G L F V Q S D I P   T A S V P L E I E I   P S E V S D V W F E L G T Y L P T T S G   H S K P T H E D S V   S A H S D T D G Q N           </pre>
<b>Biological Activity</b>	Measured by its binding ability in a functional ELISA. Immobilized Mouse CD93 at 2 µg/mL can bind Mouse IGFBP7, the EC <sub>50</sub> is ≤840 ng/mL.
<b>Appearance</b>	Lyophilized powder.
<b>Formulation</b>	Lyophilized a 0.2 µm filtered solution of 20 mM Tris-HCl, 0.5 M NaCl, 6% Trehalose, pH 8.0.
<b>Endotoxin Level</b>	<1 EU/µg, determined by LAL method.
<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O.
<b>Storage &amp; Stability</b>	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.

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## DESCRIPTION

### Background

CD93/C1qR1 Protein, functioning as a receptor or a component of a larger receptor complex, emerges as a versatile mediator in immune recognition and cellular interactions. It serves as a binding site for C1q, mannose-binding lectin (MBL2), and pulmonary surfactant protein A (SPA), suggesting a role in coordinating immune responses. CD93/C1qR1 may enhance phagocytosis in monocytes and macrophages through interaction with soluble defense collagens, underscoring its potential impact on immune defense mechanisms. Furthermore, it may contribute to intercellular adhesion and serves as a marker for early multipotent hematopoietic precursor cells, indicating its involvement in hematopoietic and vascular development. The interaction with C1QBP implies a potential association with cell surface C1q, emphasizing the intricate and multifaceted roles of CD93/C1qR1 in cellular processes.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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